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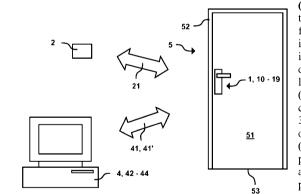
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[Fortsetzung auf der nächsten Seite]

(54) Title: METHOD FOR OPERATING AN ACCESS CONTROL SYSTEM

(54) Bezeichnung : VERFAHREN ZUM BETREIBEN EINES ZUTRITTSKONTROLLSYSTEMS



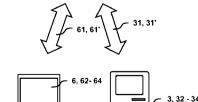


Fig. 1

(57) Abstract: The invention relates to a method for operating an access control system comprising at least one door fitting (1) to a secured area of a building and at least one identification code (T2) on a mobile data carrier (2). The identification code (T2) is read by a read device (10) of a door fitting (1). If the read-in identification code (T2) is valid, access is granted to the area secured by the door fitting (1). An authorization code (T15) is transmitted from a processor (3) via at least one communication connection (31, 31') to a central processor (4). A verification step is carried out to determine whether the transmitted authorization code (T15) corresponds to a valid authorization code for an area profile (T1). Upon successful verification of the transmitted authorization code (T15), write and read rights for the area profile (T1) are released to the processor (3) transmitting the authorization code (T15). The released area profile (T1) is changed by the processor (3) via a communication connection (31, 31').

(57) Zusammenfassung:

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Veröffentlicht:

mit internationalem Recherchenbericht (Artikel 21 Absatz 3)

Die Erfindung betrifft ein Verfahren zum Betreiben eines Zutrittskontrollsystems mit mindestens einem Türbeschlag (1) zu einem gesicherten Bereich eines Gebäudes und mindestens einem Identifikationscode (T2) auf einem mobilen Datenträger (2). Der Identifikationscode (T2) wird von einer Lesevorrichtung (10) eines Türbeschlags (1) eingelesen. Falls ein eingelesener Identifikationscode (T2) gültig ist, wird Zutritt zu dem vom Türbeschlag (1) gesicherten Bereich gewährt. Von einer Rechnereinheit (3) wird über mindestens eine kommunikative Verbindung (31, 31') ein Berechtigungscode (T15) an eine Zentralrechnereinheit (4) übermittelt. Es wird überprüft, ob der übermittelte Berechtigungscode (T15) mit einem gültigen Berechtigungscode für ein Bereichsprofil (T1) übereinstimmt. Bei erfolgreicher Überprüfung des übermittelten Berechtigungscodes (T15) werden Schreib- und Leserechte für das Bereichsprofil (T1) an die den Berechtigungscode (T15) übermittelnden Rechnereinheit (3) freigegeben werden. Von der Rechnereinheit (3) wird über eine kommunikative Verbindung (31, 31') das freigegebene Bereichsprofil (T1) verändert.

Description

Method for operating an access control system

5 The invention relates to a method for operating an access control system in accordance with the preamble of the independent claim.

WO2008/089207A1 discloses a method for operating an 10 access control system for controlling access to a secured area of a building such as a storey or a section of a storey. The access control system comprises a central computer unit and a door opener. The door opener grants access to the secured area. The 15 central computer unit is communicatively connected to the door opener via network-supported access points. The door opener has a reader, which reads in an identification code from a mobile data carrier. The read-in identification code is checked either by the 20 reader or by the central computer unit with an identification code in list comprising а valid identification codes for the secured area. Upon successful checking, the door opener grants access to the secured area.

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It is an **object** of the present invention to develop this method further.

This object is achieved by means of the characterizing 30 features of the independent claim.

In the method according to the invention for operating an access control system, the access control system has at least one door fitting to a secured area of a 35 building and at least one identification code on a mobile data carrier; which identification code is read in by a reader of a door fitting; wherein if a read-in identification code is valid, access to the area secured by the door fitting is granted; a computer unit

communicates an authorization code to central а computer unit via at least one communicative connection; a check is made to determine whether the authorization code corresponds to a valid authorization code for an area profile; upon successful checking of the communicated authorization code, write and read rights for the area profile are released to the computer unit communicating the authorization code; the released area profile is changed by the computer unit via a communicative connection.

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This has the advantage that, from any desired computer unit, it is possible to change an area profile with a valid identification code to a secured area of the 15 building, which makes the operation of the access control system simple and flexible. The computer unit has to identify itself as authorized for this changing of the area profile with an authorization code at a central computer unit. The validitv of this 20 authorization code is checked. The communication of the authorization code and the changing of the released area profile are effected via a communicative connection. In this way, the operation of the access control system is secure.

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Advantageous developments of the method are described in the dependent claims.

Advantageously, the computer unit includes an 30 identification code of a mobile data carrier as valid identification code in the released area profile. Advantageously, the computer unit removes an identification code of a mobile data carrier as valid identification code from the released area profile.

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This has the advantage that, from the computer unit, a valid identification code of a mobile data carrier can be included in and/or removed from the area profile.

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Neither the computer unit nor the mobile data carrier has to be physically at the location of the door fitting and/or the central computer unit, which makes the operation of the access control system simple and flexible.

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Advantageously, the computer unit changes a validity of an identification code of the released area profile. Advantageously, the computer unit includes an entity in 10 the released area profile. Advantageously, the computer unit removes an entity from the released area profile. Advantageously, the computer unit changes a read right of an entity of the released area profile. Advantageously, the computer unit changes a write right 15 of an entity of the released area profile. Advantageously, the computer unit changes a time zone of an entity of the released area profile.

This has the advantage that diverse specifications of 20 the released area profile can be maintained from the the computer unit, which makes the operation of the access control system simple and flexible.

Advantageously, the computer unit creates an 25 identification code of a mobile data carrier in a released area profile as provisional identification code; and if the reader of the door fitting that grants access to the secured area of the released area profile reads in an identification code corresponding to the 30 code, provisional identification the read-in identification code is included in the released area profile as valid identification code.

This has the advantage that a provisional 35 identification code of a mobile data carrier is created by the computer unit first in the released area profile and it is only when the provisional identification code is actually read in that the read-in identification

code is included in the released area profile as valid identification code. Consequently, a new identification codes is included in the area profile only when it is actually read in by the reader, which makes the operation of the access control system secure. Moreover, the inclusion of an identification code in an area profile thus does not necessitate a reader at the computer unit, which makes the operation of the access control system simple and cost-effective.

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Advantageously, a provisional identification code is created by the specification of a digit sequence in a released area profile; and if the reader of the door fitting that grants access to the secured area of the released area profile reads in a digit sequence corresponding to the digit sequence of the provisional identification code, an identification code read in with the digit sequence is included in the released area profile as valid identification code.

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This has the advantage that the computer device does not have to include a complete identification code in the released area profile, rather that it suffices to include parts of the identification code, for example the first two or three digits of the identification code, in the released area profile. Moreover, it can suffice to include specifications of the area profile, for example a name or a first name, in the released area profile and, when these specifications are read in, to include the identification code read in with these specifications in the area profile as valid identification code. This makes the operation of the access control system simple and flexible.

35 Advantageously, a provisional identification code is created by the specification of a time duration in a released area profile; and if, within the time duration, the reader of the door fitting that grants 5

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access to the secured area of the released area profile reads in an identification code corresponding to the provisional identification code, the read-in identification code is included in the released area profile as valid identification code.

This has the advantage that the computer device does not have to include any identification code at all in the released area profile, rather that, for example, the temporally next identification code read in is included in the area profile as valid identification code, which makes the operation of the access control system simple and flexible.

15 Advantageously, the central computer unit communicates at least one part of an area profile for the area secured by a door fitting via а communicative connection to the door fitting; a processor of a door fitting checks whether an identification code read in 20 by the reader of the door fitting corresponds to a valid identification code of the communicated area profile for the area secured by the door fitting. Advantageously, the area profile is stored at least in a computer-readable data memory of partly the central computer unit. Advantageously, the area profile 25 is stored at least partly in a computer-readable data memory of the door fitting. Advantageously, the central computer unit communicates at least one part of an area profile for the area secured by a door fitting via a 30 communicative connection to the door fitting; а the door fittnq checks processor of whether an identification code read in by the reader of the door fitting corresponds to a valid identification code of the communicated area profile for the area secured by 35 the door fitting; upon successful checking of the read-in identification code, the processor communicates an access signal to an actuator of the door fitting; and access to the area secured by the door fitting is

granted by the actuator for the communicated access signal.

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This has the advantage that a processor of a door fitting checks on site whether an identification code 5 read in by the reader of the door fitting corresponds to a valid identification code of the area profile for the area secured by the door fitting, which makes the operation of the access control system rapid since 10 time-consuming enquiries from the door fitting at the central computer unit remote from the door fitting are necessary for the purposes of checking. not The communication of the area profile for the area secured by the door fitting to the reader can take place at regular and/or irregular time intervals, for example 15 when it is necessary to update the area profile stored in the computer-readable data memory of the door fitting. Moreover, it is not necessary for the entire area profile to be communicated, rather it suffices to 20 communicate a part of the area profile, which reduces the transmission time. By way of example, only a changed part of the area profile is communicated.

Advantageously, an identification code read in by a 25 reader is communicated to the central computer unit via a communicative connection. Advantageously, the central computer unit checks whether an identification code read in by a reader of a door fitting corresponds to a valid identification code of an area profile for the 30 area secured by the door fitting of the reader. Advantageously, upon successful checking of the read-in identification code, the central computer unit communicates an access signal via the communicative connection to an actuator of the door fitting; and 35 access to the area secured by the door fitting is granted by the actuator for the communicated access signal.

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This has the advantage that the remote central computer unit checks whether an identification code read in by the reader corresponds to a valid identification code of the area profile for the area secured by the door fitting of the reader, which makes the operation of the access control system secure.

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Advantageously, the central computer unit communicates a communicated authorization code via a communicative connection to a building computer unit; the building 10 whether computer unit checks the communicated authorization code corresponds to a valid authorization code for an area profile; and, upon successful checking of the communicated authorization code, the building 15 computer unit communicates an authorization signal via a communicative connection to the central computer unit. Advantageously, the central computer unit, for a communicated authorization signal, releases write and read rights for the area profile to the computer unit 20 communicating the authorization code.

This has the advantage that a building computer unit as further entity carries out the checking of the communicated authorization code. The communication of 25 the communicated authorization code from the central computer unit to the building computer unit and the communication of the authorization signal back to the central computer unit are effected via a communicative connection, which makes the operation of the access 30 control system secure.

Advantageously, upon successful checking of the communicated authorization code, the central computer unit releases write and read rights for the area 35 profile to the computer unit communicating the authorization code.

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This has the advantage that the remote central computer unit, upon successful checking of the communicated authorization code, releases write and read rights for the area profile to the computer unit communicating the authorization code, which makes the operation of the access control system secure.

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Advantageously, the access control system for carrying method out the comprises the computer unit. 10 Advantageously, the access control system comprises the central computer unit. Advantageously, the access control system comprises a building computer unit. Advantageously, the access control system comprises a network-supported communicative connection between the 15 computer unit and the central computer unit. Advantageously, the access control system comprises a network-supported communicative connection between the central computer unit and the door fitting. Advantageously, the access control system comprises a 20 reading-in of the identification code of the mobile data carrier via a data communication by the reader. Advantageously, the access control system comprises a network-supported communicative connection between the central computer unit and a building computer unit.

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This has the advantage that a simple and secure communicative connection between the computer unit and the central computer unit, a simple and secure communicative connection between the central computer 30 unit and the door fitting, a simple and secure data communication from the mobile data carrier to the door fitting, and and а simple secure communicative connection between the central computer unit and the building computer unit are effected.

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Advantageously, the door fitting is arranged on a door leaf of a door to the area secured by the door fitting. Advantageously, the reader is arranged in a door

mounting of the door fitting. Advantageously, а processor is arranged in a door mounting of the door fitting. Advantageously, a computer-readable data memory is arranged in a door mounting of the door fitting. Advantageously, a transmitting and receiving unit for a network-supported communicative connection between the central computer unit and the door fitting is arranged in a door mounting of the door fitting. Advantageously, an electrical power supply is arranged in a door mounting of the door fitting.

This has the advantage that the door fitting and its components are arranged compactly and in a vandal-proof manner.

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Advantageously, the computer unit is arranged in the area secured by the door fitting.

This has the advantage that, from a secured area of the 20 building, an identification code of a mobile data carrier can be included in and/or removed from the area profile for a secured area of the building, which makes the operation of the access control system simple, flexible and secure.

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Advantageously, a computer program product comprises at least one computer program means suitable for realizing the method for operating an access control system by virtue of at least one method step being performed if 30 the computer program means is loaded into at least one processor of the door fitting and/or into at least one processor of the computer unit and/or into at least one processor of the central computer unit and/or into at least one processor of the building computer unit. Advantageously, 35 a computer-readable data memory comprises such a computer program product.

Exemplary embodiments of the invention will be explained in detail with reference to the **figures**.

Figure 1 shows a schematic illustration of the method for operating an access control system;

- Figure 2 shows a schematic view of a part of a door fitting of an access control system in accordance with figure 1;
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- Figure 3 shows a flowchart with steps of a first exemplary embodiment of the method in accordance with figure 1; and
- 15 Figure 4 shows a flowchart with steps of a second exemplary embodiment of the method in accordance with figure 1;
- Figure 5 shows a flowchart with steps of a third 20 exemplary embodiment of the method in accordance with figure 1;
- Figure 6 shows a flowchart with steps of a fourth exemplary embodiment of the method in accordance with figure 1;
 - Figure 7 shows a flowchart with steps of a fifth exemplary embodiment of the method in accordance with figure 1; and
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- Figure 8 shows a flowchart with steps of a sixth exemplary embodiment of the method in accordance with figure 1.
- 35 Figure 1 shows a schematic illustration of the method for operating an access control system in a building. Within the meaning of the present invention, the term building should be interpreted broadly. A building has

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at least one secured area. The door 5 allows access to this secured area of the building. The secured area can be a room, a corridor, a stairwell, an elevator, а wing, a hall, a garage, a light well, a garden, а dwelling, an office, a practice, a hotel room, а laboratory, a cell etc. of the building.

The door 5 has, in accordance with figure 1, at least one door leaf 51, at least one door fitting 1, at least 10 one door frame 52 and at least one door threshold 53. The door frame 52 is anchored fixedly and stably in the walls of the building. The door 5 can be opened and closed. Access to the secured area of the building takes place by crossing the door threshold 52 when the 15 door 5 has been opened. When the door 5 is closed, there is no access to the secured area of the building.

In accordance with figure 2, the door fitting 1 has at least one door mounting 11 comprising at least one bolt 20 16 and at least one handle 17. The door mounting 11 has an inner fitting and an outer fitting. Between the inner fitting and the outer fitting, the door mounting forms a cavity. The inner fitting is arranged on the side of the door 5 toward the interior of the building 25 or toward the interior of the secured area of the building. A handle 17 can be arranged both on the inner fitting and at the outer fitting. The outer fitting is arranged on the side of the door 5 toward the exterior of the building or toward the exterior of the secured 30 area of the building. For protection against sabotage, the door mounting 11, at least in regions, is produced in a durable manner and from hardened high-grade steel, spring steel, etc. When the door 5 is closed, the bolt 16 is latched into at least one striking plate 54 of 35 the door frame 52. When the door 5 is open, the bolt 16 is not latched in the striking plate 54 of the door frame 52. The bolt 16 can be actuated by pressing the handle 17. Bolt 16 and handle 17 are coupled to one

another in a force-locking manner via a coupling 15. The coupling 15 can be activated and deactivated by the movement of at least one coupling lever. When the coupling 15 is activated, an actuation of the handle 17 is transmitted to the bolt 16. When the coupling 15 is 5 deactivated. no actuation of the handle 17 is transmitted to the bolt 16. In this case, handle 17 and bolt 16 are decoupled and the closed door 5 cannot be opened by actuating the handle 17. At least one 10 actuator 18 can move the coupling lever and activate or deactivate the coupling 15. The actuator 18 is an electric motor, for example, which is supplied with electrical power by at least one electrical power supply 19 and moves the coupling lever. The actuator 18 15 is driven by at least one access signal. In the absence of an access signal, the coupling 15 is deactivated, and when an access signal is present, the coupling 15 is activated. The activation of the coupling 15 is advantageously limited temporally to a few seconds, for example five seconds, etc., in such a way that the 20 actuator 18 automatically deactivates the coupling 15 after this time duration has elapsed. However, such a short time duration is not mandatory. With knowledge of the present invention, the person skilled in the art 25 can cause the coupling 15 to be activated also for any time durations that longer may be desired. The electrical power supply 19 is likewise arranged in the cavity of the door mounting 15 and consists of а battery or a rechargeable battery or a fuel cell or a 30 solar cell having energetic autonomy of one year, preferably two years. At least one luminaire such as a light emitting diode (LED), an organic light emitting diode (OLED), etc. can also be arranged on the door fitting 1. By way of example, a varicolored LED which 35 can emit light in different colors such as green, red, yellow, blue, etc. is arranged. By way of example, a plurality of LEDs which can emit light in different colors such as green, red, yellow, blue, etc. are

arranged. At least one loudspeaker which can output at least one tone can also be arranged on the door fitting 1. The light emission of the luminaire and/or the tone of the loudspeaker are/is perceptible by a person in the area of the door and can reproduce at least one item of status information. By way of example, when an access signal is present, the luminaire is activated to effect green flashing; by way of example, when a present, disturbance signal is the luminaire is activated to effect red flashing. By way of example, when an access signal is present, the loudspeaker is activated to effect a 500 Hz tone; by way of example, when a disturbance signal is present, the loudspeaker is activated to effect a 1000 Hz tone.

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At least one **reader 10** is arranged in the door mounting 11 and is supplied with electrical power by the electrical power supply 17. The reader 10 has at least one antenna for radio frequencies, a magnetic swipe reader, an electronic swipe reader, a biometric sensor, etc. for a data communication 21 from at least one **mobile data carrier 2**. Exemplary embodiments of the mobile data carrier 2 are explained below:

25 The data communication 21 is based, for example, on a contactless data communication 21 such as radio frequency identification device (RFID according to ISO11785). The radio frequencies are, for example, in bands at 125 kHz, 13.6 MHz, etc. The mobile data 30 carrier 2 is an RFID having at least one electrical coil and at least one computer-readable data memory in which at least one identification code is stored. The RFID does not have its own electrical power supply. The RFID has the form of a credit card, for example, or is 35 integrated in a key fob. The antenna of the reader 10 emits radio frequencies. The range of the antenna is a few centimeters. As soon as the RFID comes within the range of the radio frequency connection 21, the RFID is

energetically activated by the radio frequencies by means of the electrical coil and the identification code of the RFID that is stored in the computer-readable data memory is transmitted to the antenna of the reader 10 by means of the electrical coil of the RFID.

The data transmission 21 is based, for example, such on а contactless data communication 21 as 10 Bluetooth (IEEE802.15.1), ZigBee (IEEE802.15.4), WiFi (IEEE802.11), etc. The radio frequencies are, for example, in bands at 800 to 900 MHz, 1800 to 1900 MHz, 1.7 to 2.7 GHz, etc. The range of the antenna varies from a few meters in the case of Bluetooth and ZigBee, 15 up to a few hundred meters in the case of WiFi. The mobile data carrier 2 is a mobile device such as a cellular telephone, personal digital assistant (PDA), etc., comprising at least one antenna, at least one processor, at least one computer-readable data memory 20 and a dedicated electrical power supply. The antenna of the reader 10 emits radio frequencies with enguiry signals. As soon as the mobile device comes within the range of the radio frequency connection 21 and receives an enquiry signal from the reader 10, the antenna of 25 the mobile device transmits a response signal to the antenna of the reader 10. The identification code stored in the computer-readable data memory of the mobile device is transmitted to the antenna of the reader 10 via the antenna of the mobile device.

However, the data communication 21 can also be

based on reading a magnetic stripe and/or an electronic

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data memory in a contact-based fashion. In this case, the mobile data carrier 2 is a card having a magnetic stripe and/or an electronic data memory. The magnetic stripe and/or the electronic data memory are/is read by a magnetic swipe reader or an electronic swipe reader of the reader 10. 5

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- The data communication 21 can also be based on reading a **biometric signal** by means of a biometric sensor. In this case, the mobile data carrier 2 is a person's fingertip, a person's hand, a person's face, a person's iris, a person's body, a person's odor, etc., which is read by a biometric sensor of the reader 10 as a fingerprint, hand geometry, face profile, iris profile, retinal scan, thermogram, odor, weight, voice, signature, etc.

At least one transmitting and receiving unit 12, at least one processor 13 and at least one computer-readable data memory 14 are arranged in the 15 door mounting 11 and are supplied with electrical power by the electrical power supply 17. The transmitting and receiving unit 12 realizes at least one network-supported communicative connection 41 between the door fitting 1 and at least one central computer 20 unit 4. The transmitting and receiving unit 12, the processor 13 and the computer-readable data memory 14 are arranged on at least one circuit board and are connected to one another via at least one signal line. From the computer-readable data memory 14, at least one computer program means is loaded into the processor 13 25 and executed. The computer program means controls the communication between the transmitting and receiving unit 12, the processor 13 and the computer-readable data memory 14. The computer program means also 30 controls the communicative connection 41.

At least one central computer unit 4 has at least one transmitting and receiving unit 42, at least one processor 43 and at least one computer-readable data memory 44. The transmitting and receiving unit 42 realizes at least one network-supported communicative connection 41 between the central computer unit 4 and at least one door fitting 1 and/or at least one

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network-supported communicative connection 31. 31' between the central computer unit 4 and at least one computer unit 3. From the computer-readable data memory 44, at least one computer program means is loaded into 5 the processor 43 and executed. The computer program means controls the communication between the transmitting and receiving unit 42, the processor 43 and the computer-readable data memory 44. The computer program means also controls the communicative connection 31, 31', 41, 41'. The central computer unit 10 be a microcomputer such as a workstation, 4 can personal computer (PC), etc. The central computer unit 4 can consist of a hierarchical assemblage of a plurality of microcomputers. The central computer unit 15 4 can be arranged in the building and/or in a manner remote from the building. In one embodiment, the processor 43 and a first computer-readable data memory 44 can be arranged in a control center for the maintenance of the access control system, while a 20 further computer-readable data memory 44 is arranged in the building of the access control system.

At least computer unit 3 one has at least one transmitting and receiving unit 32, at least one 25 processor 33 and at least one computer-readable data memory 34. The transmitting and receiving unit 32 realizes at least one network-supported communicative connection 41, 41' between the computer unit 3 and at least one central computer unit 4. From the computer-readable data memory 34, at least one computer 30 program means is loaded into the processor 33 and executed. The computer program means controls the communication between the transmitting and receiving unit 32, the processor 33 and the computer-readable 35 data memory 34. The computer unit 3 can be a mobile microcomputer such as a PC, notebook, netbook, cellular telephone, PDA, etc. The computer program means also controls the communicative connection 41. Consequently,

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from the computer unit 3, a network-supported communicative connection 41, 41' between the computer unit 3 and the central computer unit 4 can be established, maintained and ended again via a computer program means. The computer program means can be a computer program for viewing computer-supported pages of the World Wide Web. Such web browsers are known by the names Internet Explorer, Firefox, Opera, etc. The computer unit 3 can be arranged in the building and/or in a manner remote from the building.

At least one building computer unit 6 has at least one transmitting and receiving unit 62, at least one processor 63 and at least one computer-readable data 15 **memory 64**. The transmitting and receiving unit 62 realizes at least one network-supported communicative connection 61, 61' between the building computer unit 6 and the central computer unit 4. From the computer-readable data memory 64, at least one computer 20 program means is loaded into the processor 63 and The computer program means controls executed. the communication between the transmitting and receiving unit 62, the processor 63 and the computer-readable data memory 64. The computer program means also 25 controls the communicative connection 61, 61'. The building computer unit 6 can be a microcomputer such as workstation, personal computer (PC), etc. a The building computer unit 6 can consist of a hierarchical assemblage of a plurality of microcomputers. The 30 building computer unit 6 can be arranged in the building and/or in a manner remote from the building.

Exemplary embodiments of the communicative connection 31, 31', 41, 41', 61, 61' are explained below:

- The communicative connection 31, 31', 41, 41', 61, 61' can be a **network** such as Ethernet, ARCNET, etc., comprising at least one electrical and/or optical

signal line. The network allows bidirectional communication in accordance with known and proven network protocols such as the Transmission Control Protocol/Internet Protocol (TCP/IP), Hypertext Transfer 5 Protocol (HTML), Simple Mail Transfer Protocol (SMTP), Message Access Protocol (IMAP), Internet Internet Packet Exchange (IPX), etc. The subscribers in the network are uniquely addressable by means of network addresses. In order to increase the security during the 10 communicative connection 31, 31', 41, 41', 61, 61', the communication of security-relevant data is effected in encrypted form by means of an encrypted communicative connection 31', 41', 61'. Known encryption protocols are the Secure Sockets Layer (SSL), Secure Multipurpose 15 Internet Mail Extensions (S/MIME), etc. The encryption protocol is positioned, in the Open Systems Interconnection (OSI) reference model, above the TCP transport layer and below application programs such as HTML or SMTP). An unencrypted communicative connection 20 is designated by 31, 41, 61.

The communicative connection 31, 41, 61 can be a telephone radio network such as Global Systems for Mobile Communications (GSM), General Radio Packet Services (GPRS), Enhanced Data Rate for GSM Evolution (EDGE), Universal Mobile Telecommunications System (UMTS), High Speed Download Packet Access (HSDPA), etc. The frequencies used by the telephone radio network are in bands at 800 to 900 MHz and 1800 to 1900 MHz in the 30 case of GSM and GPRS, and at 700 to 900 MHz and 1.7 to 2.7 GHz in the case of UMTS and HSDPA.

The communicative connection 31, 41, 61 can be a telephone landline network such as Public Switched Telecommunication 35 Network (PSTN). The telephone landline network can be configured in analog and/or digital fashion. In the case of an analog telephone landline network, analog tone signals are communicated.

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In this case, the bandwidth is limited to the frequency range of 300 to 3400 Hz. Besides a voice signal, further signals such as a dialing signal, a call etc. are communicated. A digital telephone signal, landline is known as Integrated network Services Digital Network (ISDN), Asymmetric Digital Subscriber Line (ADSL), Very High Data Rate Digital Subscriber Line (VDSL), etc. In the case of ADSL, a significantly wider frequency range of 200 Hz to 1.1 MHz is used.

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Given knowledge of the present invention, the person skilled in the art can also realize the communicative connection 31, 41, 61 via a telephone radio network and/or a telephone landline network in encrypted form.

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The access control system operates the access to a secured area of the building by means of at least one area profile. The area profile is, for example, а computer-readable file and can be stored at least 20 partly in a computer-readable data memory 14 of the door fitting 1 and/or in a computer-readable data memory 44 of the central computer unit 4. An area profile relates to a secured area of the building and comprises at least one entity and, for said entity, the 25 area profile comprises different specifications such as name, first name, identification code, read right, write right, history, time zone, validity, etc.

Entity denotes at least one person and/or 30 substantive object, which entity has access to this secured area of the building for this identification code. The person can be a human or an animal. The substantive object can be a vehicle, a pallet, a container, a robot, etc.

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Name and first name denote the name and first name of the entity. In the case of a person, the name and first name of the person are specified such as are

specified in official documents such as a personal identity card, travel document, etc. of this person.

The identification code consists, for example, 5 of at least one digit sequence, which can be encrypted or unencrypted, which has to be used by the entity for identification purposes in order to obtain access to this secured area of the building. The digit sequence can be numerical, alphanumeric, etc. The identification code can also be at least one independent file, which 10 can be encrypted or unencrypted. The identification code can also be at least one biometric signal of the entity, which can be encrypted or unencrypted as an independent file.

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Read right is understood to mean an authorization of the entity to read the content of the area profile. Write right is understood to mean an authorization of the entity to read and to change the content of the area profile.

History denotes stored accesses and/or exits by the entity to and/or from this secured area of the building. By way of example, the history comprises the 25 date and the time of day of each access to this secured area of the building and also the date and the time of day of each exit from this secured area of the building.

30 Time zone denotes a temporal limitation of the access by the entity to this secured area of the building. The time zone can comprise just specific hours in a week, for example for an entity who is supposed to clean this secured area of the building on 35 weekdays between 8.00pm and 9.00pm. However, the time zone can also be unlimited, for example for a person who permanently lives in this secured area of the building. A time zone can be repeated as often as

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desired, but it can also occur just once. By way of example, a person stays for a single night in a hotel room as secured area of the building. For this person, the time zone then begins at noon of the first day and lasts the whole night through to 11.00am of the following day.

Validity specifies whether the identification code with respect to this secured area of the building
10 is valid at the current point in time. If an identification code was valid at an earlier point in time and is invalid at the present point in time, this earlier validity can be provided with a date and a time of day of this change.

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During the operation of the access control system, the specifications of the **area profile** are **maintained**. Exemplary embodiments in this respect are explained below:

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- The secured area of the building consists, for example, of a number of offices of a company in which a number of persons work on weekdays. A plurality of area profiles exist for the offices of this company, with one area profile for each office. If one of these persons then changes his/her work and no longer works in the old office, but rather in a new office of the

company, the area profiles for this old office and for this new office have to be changed. In the area profile 30 for the old office, either the specifications

concerning the entity, the name, the first name of said person are removed or the specification of validity for this person is set to invalid in the area profile for the old office or the specification of time zone is set

35 to zero in the area profile for the old office, that is to say that access is not granted at any time. In the area profile for the new office, the specifications concerning the entity, the name, the first name, the identification code and the time zone are included for this person. The person has neither a read right nor a write right to the area profile for the new office.

5 - The secured area of the building consists, for example, of a dwelling in which a family comprising two or more persons permanently resides. The area profile for this dwelling only comprises specifications concerning the persons of the family. If the family

10 takes a vacation and leaves the dwelling for two weeks, and the neighbor is supposed to water the flowers in the dwelling during these two weeks, then the area profile for this dwelling has to be changed. A new entity for the neighbor is included in the area profile 15 for this dwelling, with specifications concerning the name, the first name, the identification code and the time zone. The neighbor has neither a read right nor a write right. The time zone is two weeks, for as long as the vacation period.

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For maintaining an area profile, at least one authorization code is communicated to the central computer unit 4 from the computer unit 3. In a similar manner to the identification code, the authorization code consists of at least one digit sequence, which can be encrypted or unencrypted. The digit sequence can be numerical, alphanumeric, etc. The authorization code can also be at least one independent file, which is encrypted or unencrypted. The authorization code can also be at least one independent file, which is encrypted or unencrypted. The authorization code can also be at least one biometric signal of the entity,

30 also be at least one biometric signal of the entity, which can be encrypted or unencrypted as an independent file. The authorization code can be identical to the identification code. The authorization code can be an address, for example a mail address (email address) for 35 a communication in accordance with SMTP, IMAP, etc.

A check is made to determine whether the communicated authorization code corresponds to a valid authorization code for an area profile. Each area profile is linked to a valid authorization code. The valid authorization codes can be stored in the central computer unit 4 or in the building computer unit 6. The check can be made by the central computer unit 4 and/or the building computer unit 6. In one advantageous configuration of the method, the communicated authorization code is communicated from the central computer unit 4 via a communicative connection 61, 61' to the building computer unit 6, which building computer unit 6 checks the communicated authorization code and, upon successful checking, communicates an authorization signal via a communicative connection 61, 61' to the central computer unit 4.

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Upon successful checking of the communicated authorization code, the central computer unit 4 releases write and read rights for the area profile linked to the communicated authorization code to the computer unit 3 communicating the authorization code. If the communicated authorization code is checked by the building computer unit 6, the central computer unit 4 releases write and read rights for an area profile only after the communication of a corresponding

25 authorization signal. For a released area profile, the central computer unit 4 communicates a release signal to the computer unit 3 via the communicative connection 31, 31'. From the computer unit 3, the released area profile is changed via the communicative connection 31, 30 31'. For this purpose, the computer unit 3 communicates at least one change signal via the communicative connection 31, 31' to the central computer unit 4,

which central computer unit 4 implements a change in the area profile for a received change signal. The 35 change in the area profile can comprise erasure, addition, alteration of a specification of the area profile, such as name, first name, identification code, read right, write right, history, time zone, validity, etc.

Figures 3 to 8 show **flowcharts** of steps of exemplary 5 embodiments of the method for operating an access control system. The individual steps are described below:

In a step S1, in accordance with figure 3, an area
 profile T1 with a valid identification code T2' is stored in the central computer unit 4 and is present there.

- In a step S1, in accordance with figures 4 and 5, 15 an area profile T1 with a valid identification code T2' is communicated from the central computer unit 4 via a communicative connection 41, 41' to a network address of the door fitting 1 which grants access to the secured area to which the area profile 1 relates. Step S1 can be effected as necessary, for example at regular 20 time intervals such as weekly, monthly, etc., and/or upon a change having been made to the area profile 1 of the area secured by the door fitting 1. The communicative connection 41, 41' can be permanently 25 maintained or it can be established only for the purposes of communicating the area profile T1.

In a step S2, in accordance with figures 3 to 5, an identification code T2 of a mobile data carrier 2 is
30 read in by a reader 10 of the door fitting 1 by data communication 21.

In a step S3, in accordance with figure 3, a read-in identification code T2 is communicated from the
door fitting 1 via a communicative connection 41, 41' to the network address of the central computer unit 4.

- In accordance with figure 3, the read-in identification code T2 is received by the central computer unit 4 via the communicative connection 41, 41'. In accordance with figures 4 and 5, the read-in 5 identification code T2 is present in the door fitting

- 1. In a step S4, in accordance with figure 3, the central computer unit 4 checks whether the read-in identification code T2 corresponds to a valid identification code T2' for the area secured by the
- 10 door fitting 1, which valid identification code is stored in the area profile T1. If the read-in identification code T2 corresponds to the valid identification code T2', the central computer unit 4 generates an access signal T4 and communicates it via a
- communicative connection 41, 41' to the network address 15 of the door fitting 1 which read in the identification code T2 and communicated it to the central computer unit 4. If the read-in identification code T2 does not correspond to the valid identification code T2', the
- 20 central computer unit 4 generates a blocking signal T4' and communicates it via a communicative connection 41, 41' to the network address of the door fitting 1 which read in the identification code T2 and communicated it to the central computer unit 4.

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- In a step S4, in accordance with figures 4 and 5, the door fitting 1 checks whether the read-in identification code T2 corresponds to a valid identification code T2' for the area secured by the door fitting 1, which valid identification code T2' is stored in the area profile T1. If the read-in identification code T2 corresponds to the valid identification code T2', the door fitting 1 generates an access signal T4. If the read-in identification code T2 does not correspond to the valid identification code T2', the door fitting 1 generates a blocking signal T4'. In accordance with figure 5, a read-in

identification code T2 and the blocking signal T4'

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generated for this one read-in identification code T2 are communicated from the door fitting 1 via a communicative connection 41, 41' to the network address of the central computer unit 4.

In accordance with figure 5, a read-in identification code T2 and a blocking signal T4' generated for this identification code T2 are received by the central computer unit 4 via the communicative connection 41, 41'. In a step S4', in accordance with figure 5, the central computer unit 4 checks whether the read-in identification code T2 corresponds to a valid identification code T2' for the area secured by

the door fitting 1, which valid identification code T2'

15 is stored in the area profile T1. If the read-in identification code T2 corresponds to the valid identification code T2', the central computer unit 4 generates an access signal T4''. In accordance with figure 5, a read-in identification code T2 and the

- access signal T4'' generated for this read-in 20 identification code T2 are communicated from the central computer unit 4 via a communicative connection 41, 41' to the network address of the door fitting 1 which read in the identification code T2 and
- 25 communicated it to the central computer unit 4. If the read-in identification code T2 does not correspond to the valid identification code T2', the central computer unit 4 generates a blocking signal T4'''. In accordance with figure 5, a read-in identification code T2 and the
- 30 blocking signal T4''' generated for this read-in identification code T2 are communicated from the central computer unit 4 via a communicative connection 41, 41' to the network address of the door fitting 1 which read in the identification code T2 and 35 communicated it to the central computer unit 4.

- In accordance with figure 3, an access signal T4 is received by the door fitting 1 via the communicative connection 41, 41'. In accordance with figure 4, an access signal T4 is present in the door fitting 1. In accordance with figure 5, a read-in identification code T2 and an access signal T4'' generated for this read-in identification code T2 are received by the door fitting 1 via the communicative connection 41, 41'. In a step S5, in accordance with figures 3 to 5, the door fitting 1, for an access signal T4 present, grants access to the area secured by the door fitting 1 and/or outputs access information for example in the form of an activated luminaire and/or an activated loudspeaker of the door fitting 1.

- In accordance with figure 3, a blocking signal T4' 15 is received by the door fitting 1 via the communicative connection 41, 41'. In accordance with figure 4, a blocking signal T4' is present in the door fitting 1. In accordance with figure 5, a read-in identification code T2 and a blocking signal T4''' generated for this 20 read-in identification code T2 are received by the door fitting 1 via the communicative connection 41, 41'. In a step S5', in accordance with figures 3 to 5, the door fitting 1, for a blocking signal T4', T4''' present, does not grant access to the area secured by the door

25 fitting 1 and/or outputs blocking information for example in the form of an activated luminaire and/or an activated loudspeaker of the door fitting 1.

- In a step S11, in accordance with figures 6 and 7, 30 maintenance of an area profile is initiated by virtue of the computer unit 3 communicating a maintenance enquiry of an area profile T1 to the network address of the central computer unit 4 via a communicative connection 31.

- In accordance with figures 6 and 7, the maintenance enquiry, the area profile T1 and the network address of the computer unit 3 are received by

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communicative connection 31.

the central computer unit 4 via the communicative connection 31. In a step S12, in accordance with figures 6 and 7, the central computer unit 4 checks whether the area profile T1 exists in the access control system. If the area profile T1 exists in the access control system, the central computer unit 4 communicates a mail address enquiry T12 to the network address of the computer unit 3 via the communicative connection 31. If the area profile T1 does not exist in the access control system, the central computer unit 4 communicates an enquiry repetition enquiry T12' to the network address of the computer unit 3 via the

15 - In accordance with figures 6 and 7, the mail address enquiry T12 is received by the computer unit 3 via the communicative connection 31. In a step S13, in accordance with figures 6 and 7, the computer unit 3 communicates a mail address T13 of the computer unit 3 20 to the network address of the central computer unit 4 via a communicative connection 31'. The mail address T3 is communicated via an encrypted communicative connection 31', which is established via an electronic reference (hyperlink) by the computer unit 3 from the 25 received mail address enquiry T12.

In accordance with figures 6 and 7, the mail address T13 is received by the central computer unit 4 via the encrypted communicative connection 31'. In a step S14, in accordance with figures 6 and 7, the 30 central computer unit 4 communicates an authorization code enquiry T14 to the network address of the computer unit 3 via an encrypted communicative connection 31'. In addition to the authorization code enquiry T14, the 35 central computer unit 4 can communicate a request for confirmation of the mail address T13 of the computer unit 3 to the network address of the computer unit 3.

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In accordance with figures 6 and 7, the authorization code enquiry T14 and, if appropriate, the request for confirmation of the mail address T13 is/are received by the computer unit 3 via the communicative connection 31'. In a step S15, in accordance with figures 6 and 7, the computer unit 3 communicates an authorization code T15 and, if appropriate, а confirmation of the mail address T3 to the network address of the central computer unit 4 via an encrypted communicative connection 31'.

accordance with figures 6 and In 7, the authorization and, if appropriate, code T15 the confirmation of the mail address T13 is/are received by 15 the central computer unit 4 via the encrypted communicative connection 31'. In a step S16, in accordance with figure 6, the central computer unit 4 communicates an authorization code checking enquiry T16 with the authorization code T15 and the area profile T1 20 to a mail address of the building computer unit 6 via a communicative connection 61.

In accordance with figure 6, the authorization code checking enquiry T16, the authorization code T15 25 and the area profile T1 are received by the building computer unit 6 via the communicative connection 61. In a step S17, in accordance with figure 6, the building computer unit 6 checks whether the authorization code **T**15 is valid for the area profile T1. If the 30 authorization code T15 is valid for the area profile T1, in accordance with figure 6, the building computer unit 6 generates an authorization signal **T17** and communicates it to the network address of the central computer unit 4 via an encrypted communicative 35 connection 61'. If the authorization code T15 is invalid for the area profile T1, in accordance with figure 6, the building computer unit 6 generates a non-authorization signal T17' and communicates it to

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the network address of the central computer unit 4 via the encrypted communicative connection 61'. The communication of the authorization signal T17 or of the non-authorization signal T17' is effected via an encrypted communicative connection 61' established via an electronic reference (hyperlink) by the building computer unit 6 from the received authorization code checking enquiry T16.

10 In accordance with figure 7, the authorization code checking enquiry T16, the authorization code T15 and the area profile T1 are present in the central computer unit 4. In a step S17, in accordance with figure 7, the central computer unit 4 checks whether 15 the authorization code T15 is valid for the area profile T1. If the authorization code T15 is valid for the area profile T1, in accordance with figure 7, the central computer unit 4 generates an authorization signal T17. If the authorization code T15 is invalid for the area profile T1, in accordance with figure 7, 20 unit the central computer 4 generates a non-authorization signal T17'.

In accordance with figure 6, the authorization 25 signal T17 or the non-authorization signal T17' is received by the central computer unit 4 via the encrypted communicative connection 61'. In accordance fiqure 7, an authorization signal with T17 or а non-authorization signal T17' is present in the central 30 computer unit 4. In a step S18, in accordance with figures 6 and 7, the central computer unit 4, for an authorization signal T17 present, releases write and read rights for the area profile T1. It generates a release signal T18 and communicates the release signal T18 to the mail address of the computer unit 3 via a 35 communicative connection 31.

In accordance with figures 6 and 7, the release signal T18 is received by the computer unit 3 via the communicative connection 31. In a step S19, in accordance with figures 6 to 8, the computer unit 3 generates a change signal T19 and communicates it to the network address of the central computer unit 4 via a communicative connection 31'. The change signal T19 is communicated via an encrypted communicative connection 31' established via an electronic reference (hyperlink) by the computer unit 3 from the received release signal T18.

In accordance with figures 6 to 8, the change signal T19 is received by the central computer unit 4 15 via the encrypted communicative connection 31'. In a step S20, in accordance with figures 6 and 7, the central computer unit 4, for a received change signal T19, implements changes in the area profile T1 and communicates a change confirmation signal T20 to the network address of the computer unit 3 via an encrypted 20 communicative connection 31'.

Given knowledge of the present invention, the person skilled in the art can also realize the encrypted communicative connection 31', 61' described above by an unencrypted communicative connection 31, 61.

In a step S20, in accordance with figure 8, the central computer unit 4 implements a change signal T19 30 in a change in a released area profile T1 in such a way that a a provisional identification code T2* is created therein.

In a step S21, in accordance with figure 8, a read-in identification code T2 is compared with the 35 provisional identification code T2* created. If the read-in identification code T2 was read in at the door fitting 1 which grants access to the secured area of

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the released area profile T1 with the provisional identification code T2* created, and the read-in identification code T2 corresponds to said provisional identification code T2*, the read-in identification code T2 is included in the released area profile as valid identification code T2'. If that is not the case, and the read-in identification code T2' created, the central computer unit 4 generates an error signal T21.

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In a step S22, in accordance with figure 8, the central computer unit 4, for the identification code T2' included as valid in the area profile T1, communicates a change confirmation signal T20 to the network address of the computer unit 3 via a communicative connection 31, 31'.

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Claims

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1. A method for operating an access control system with at least one door fitting (1) to a secured area of a building and at least one identification code (T2) on a mobile data carrier (2); which identification code (T2) is read in by a reader (10) of a door fitting (1); wherein if a read-in identification code (T2) is valid, access to the area secured by the door fitting (1) is granted;

characterized

in that a computer unit (3) communicates an authorization code (T15) to a central computer unit (4) via at least one communicative connection (31, 31');

in that a check is made to determine whether the communicated authorization code (T15) corresponds to a valid authorization code for an area profile (T1);

in successful that. upon checking of the communicated authorization code (T15), write and read rights for the area profile (T1) are released the computer unit (3) to communicating the authorization code (T15); and

in that the released area profile (T1) is changed by the computer unit (3) via a communicative connection (31, 31').

- 30 2. The method as claimed in claim 1, characterized in that the computer unit (3) includes an identification code (T2) of a mobile data carrier as valid identification code (T2') (2) in the released area profile (T1)
- 35 and/or in that the computer unit (3) removes an identification code (T2) of a mobile data carrier (2) as valid identification code (T2') from the released area profile (T1)

and/or in that the computer unit (3) changes a validity of an identification code of the released area profile (T1) and/or in that the computer unit (3) includes an entity in the released area profile (T1) and/or in that the computer unit (3) removes an entity from the released area profile (T1) and/or in that the computer unit (3) changes a read right of an entity of the released area profile (T1) and/or in that the computer unit (3) changes a write right of an entity of the released area profile (T1) and/or in that the computer unit (3) changes a time zone of an entity of the released area profile (T1).

- 3. The method as claimed in claim 1, characterized in that the computer unit (3) creates an 20 identification code of a mobile data carrier (2) in a released area profile (T1) as provisional identification code (T2*); and in that if the reader (10) of the door fitting (1) that grants access to the secured area of the released area 25 profile (T1) reads in an identification code (T2) corresponding to the provisional identification code (T2*), the read-in identification code (T2) is included in the released area profile (T1) as valid identification code (T2').
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The method as claimed in claim 3, characterized in that a provisional identification code (T2*) is created by the specification of a digit sequence in a released area profile (T1); and in that if the reader (10) of the door fitting (1) that grants access to the secured area of the released area profile (T1) reads in a diqit sequence corresponding to the digit sequence of the

provisional identification code (T2*), an identification code (T2) read in with the digit sequence is included in the released area profile (T1) as valid identification code (T2')

- and/or a provisional identification code (T2*) is created by the specification of a time duration in a released area profile (T1); and in that if. within the time duration, the reader (10) of the door fitting (1) that grants access to the secured area of the released area profile (T1) reads in an identification code (T2) corresponding to the provisional identification code (T2*), the read-in identification code (T2) is included in the released area profile (T1) as valid identification code (T2').
- 5. The method as claimed in any of claims 1 to 4, characterized in that a processor (13) of a door fitting (1) checks whether an identification code (T2) read in by the reader (10) of the door fitting (1) corresponds to a valid identification code (T2') of an area profile (T1) for the area secured by the door fitting (1)

and/or in that the central computer unit (4)communicates at least one part of an area profile (T1) for the area secured by a door fitting (1) via a communicative connection (41, 41') to the door fitting (1); and in that a processor (13) of the door fitting (1) checks whether an identification code (T2) read in by the reader (10) of the door fitting (1) corresponds to a valid identification code (T2') of the communicated area profile (T1)

and/or in that

the central computer unit (4) communicates at least one part of an area profile (T1) for the secured by a door fitting area (1)via а communicative connection (41, 41') to the door

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fitting (1); in that a processor (13) of the door fitting (1) checks whether an identification code (T2) read in by the reader (10) of the door fitting (1) corresponds to a valid identification code (T2') of the communicated area profile (T1); in that, upon successful checking of the read-in identification code (T2), the processor (13) communicates an access signal (T4) to an actuator (18) of the door fitting (1); and in that access to the area secured by the door fitting (1) is granted by the actuator (18) for the communicated access signal (T4).

6. The method as claimed in any of claims 1 to 4, characterized in that the central computer unit (4) checks whether an identification code (T2) read in by a reader (10) of a door fitting (1) corresponds to a valid identification code (T2') of an area profile (T1) for the area secured by the door fitting (1) of the reader (10)

> and/or in that an identification code (T2) read in by a reader (10) is communicated to the central computer unit (4) via a communicative connection (41, 41'); and in that the central computer unit (4) checks whether the read-in identification code (T2) corresponds to a valid identification code (T2') of an area profile (T1) for the by the door fitting (1) of the reader (10)

and/or in that an identification code (T2) read in by a reader (10) is communicated to the central computer unit (4) via a communicative connection (41, 41'); and in that the central computer unit (4) checks whether the read-in identification code (T2) corresponds to a valid identification code (T2') of an area profile (T1) for the by the door fitting (1) of the reader (10);

in that, upon successful checking of the read-in identification code (T2), the central computer

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unit (4) communicates an access signal (T4) via communicative connection (41, the 41') to an actuator (18) of the door fitting (1); and in that access to the area secured by the door fitting (1) is granted by the actuator (18)for the communicated access signal (T4).

7. The method as claimed in any of claims 1 to 6, characterized in that the central computer unit (4) communicates a communicated authorization code (T15) via a communicative connection (61, 61') to a building computer unit (6); in that the building computer unit (6) checks whether the communicated authorization code (T15) corresponds to a valid authorization code for an area profile (T1); and in successful that, upon checking of the communicated authorization code (T15), the building computer unit (6) communicates an authorization signal (T17) via a communicative connection (61, 61') to the central computer unit (4) and/or in that the central computer unit (4) communicates a communicated authorization code (T15) via a communicative connection (61, 61') to a building computer unit (6); in that the building computer unit (6) checks whether the communicated authorization code (T15) corresponds to a valid authorization code for an area profile (T1); in that, upon successful checking of the communicated authorization code (T15), the building computer unit (6) communicates an authorization signal (T17) via a communicative connection (61, 61') to the central computer unit (4) and in that the central computer unit (4), for a communicated authorization signal (T17), releases write and read rights for the area profile (T1) to the computer unit (3) communicating the authorization code (T15).

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- The method as claimed in any of claims 1 to 7, 8. characterized in that, upon successful checking of the communicated authorization code (T15), the central computer unit (4) releases write and read rights for the area profile (T1) to the computer (3) unit communicating the authorization code (T15).
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- 9. An access control system for carrying out the method as claimed in any of claims 1 to 8. characterized in that the access control system comprises the computer unit (3) and/or in that the access control system comprises the central computer unit (4) and/or in that the access control system comprises
- a building computer unit (6) and/or in that the access control system comprises a network-supported communicative connection (31, 31') between the computer unit (3) and the central computer unit (4)

and/or in that the access control system comprises a network-supported communicative connection (41, 41') between the central computer unit (4) and the door fitting (1)

25 and/or in that the access control system comprises a reading-in of the identification code (T2) of the mobile data carrier (2)via а data communication (21) by the reader (10)

> and/or in that the access control system comprises a network-supported communicative connection (61, 61') between the central computer unit (4) and a building computer unit (6).

10. The access control system as claimed in claim 9, characterized in that the area profile (T1) is stored at least partly in a computer-readable data memory (43) of the central computer unit (4)

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and/or in that the area profile (T1) is stored at least partly in a computer-readable data memory (14) of the door fitting (1).

- 5 11. The access control system as claimed in either of claims 9 and 10, characterized in that the door fitting (1) is arranged on a door leaf of a door to the area secured by the door fitting (1).
- 10 12. The access control system as claimed in any of claims 9 to 11, characterized in that the reader (10) is arranged in a door mounting (11) of the door fitting (1) and/or in that a processor (13) is arranged in a
 - door mounting (11) of the door fitting (1) and/or a computer-readable data memory (14) is arranged in a door mounting (11) of the door fitting (1)
- and/or a transmitting and receiving unit (12) for 20 a network-supported communicative connection (41) between the central computer unit (4) and the door fitting (1) is arranged in a door mounting (11) of the door fitting (1)

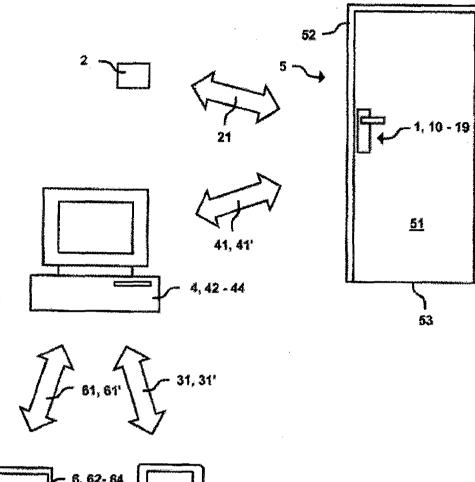
and/or an electrical power supply (19) is arranged in a door mounting (11) of the door fitting (1).

- 13. The access control system as claimed in any of claims 9 to 12, characterized in that the computer unit (3) is arranged in the area secured by the door fitting (1).
- A computer program product, comprising at least 14. one computer program means suitable for realizing the method as claimed in any of claims 1 to 8 by means of at least one method step being performed if the computer program means is loaded into at least one processor (13) of the door fitting (1) and/or into at least one processor (33) of the

computer unit (3) and/or into at least one processor (43) of the central computer unit (4) and/or into at least one processor (63) of a building computer unit (6).

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15. A computer-readable data memory comprising a computer program product as claimed in claim 14.



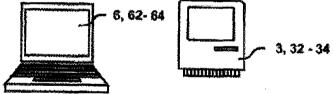
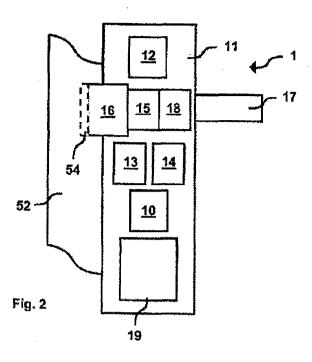
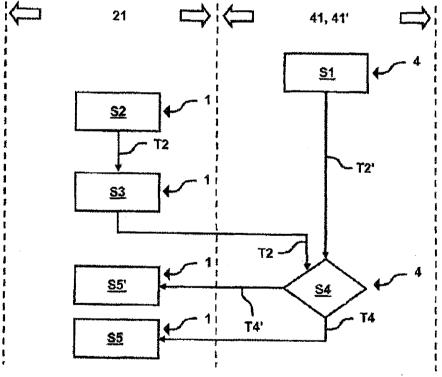
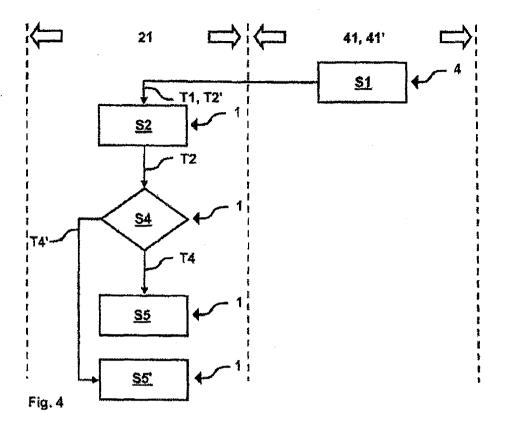


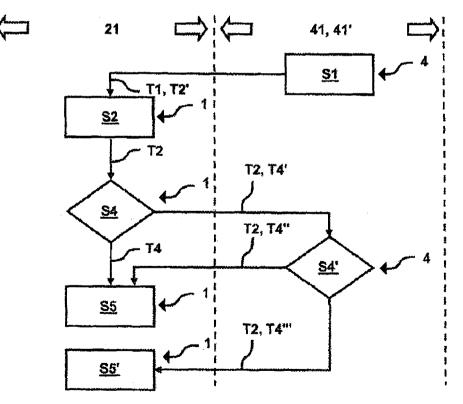
Fig. 1



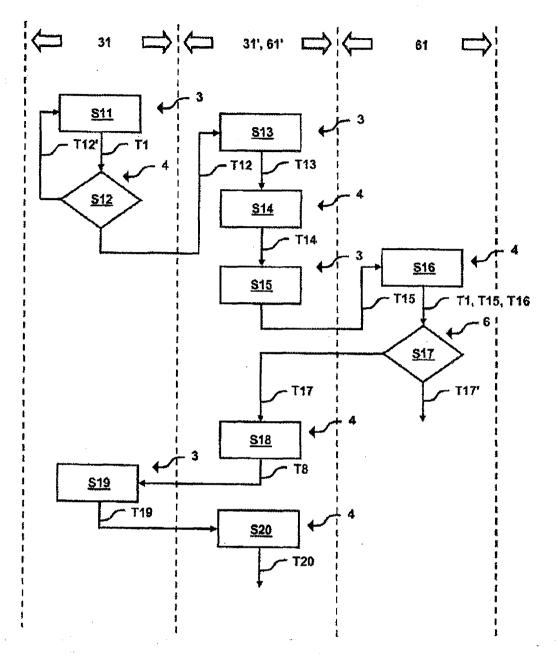














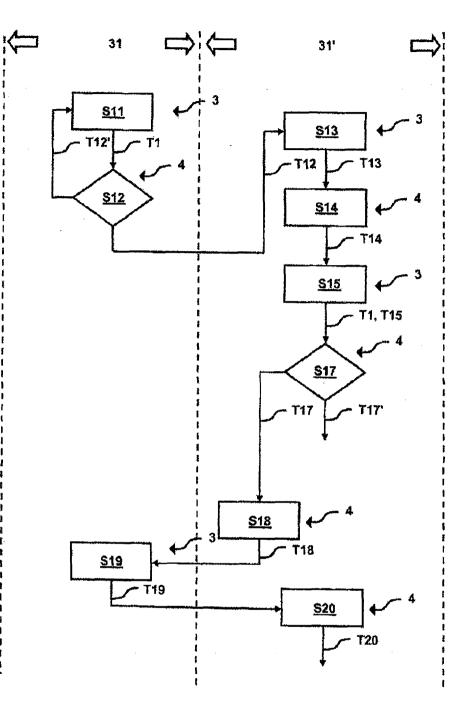
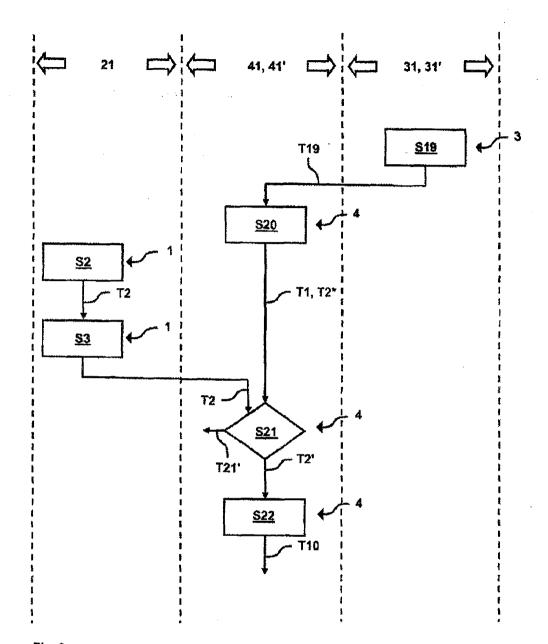


Fig. 7

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